

Unit 2 Whole Numbers – Practice Test

Part A

1. Write each number in standard form.

a) $500\ 000 + 9\ 000 + 40 + 8$

509 048

b) six hundred forty eight thousand five

648 005

c) $80\ 000 + 6\ 000 + 400 + 90 + 2$

86 492

2. Order the numbers in question 1 from **least** to **greatest**.

86 492 509 048 648 005

3. Write the value of each underlined digit.

a) 38 428 400 b) 472 932 2000 c) 406 672 400 000

d) 1 000 000 1 000 000 e) 43 143 40 000 f) 765 840 40

4. Write 3 numbers that are greater than 775 000 and less than 777 500.

example: 776 213 775 295 777 423

Write the numbers in order from **least** to **greatest**.

775 295 776 213 777 423

Part B

5. Estimate 67 794 to:

the closest thousand 68 000

the closest ten thousand 70 000

6. Estimate each sum or difference. Show your work.

a) $2942 + 1492$ $3000 + 1500 = 4500$ or $3000 + 1000 = 4000$

b) $5623 - 467$ $5600 - 500 = 5100$

c) $46\ 135 + 28\ 412$ $46\ 000 + 30\ 000 = 76\ 000$ or $50\ 000 + 30\ 000 = 80\ 000$

d) $72\ 670 - 31\ 995$ $70\ 000 - 30\ 000 = 40\ 000$

e) $58\ 309 + 4859$ $60\ 000 + 5000 = 65\ 000$ or $60\ 000 + 4900 = 64\ 900$

f) $98\ 530 - 16\ 899$ $99\ 000 - 17\ 000 = 82\ 000$

7. Add or subtract. How do you know that your answer is reasonable?

a) $64\ 378 + 27\ 123 =$

$$\begin{array}{r} 64\ 378 \\ + 27\ 123 \\ \hline 80\ 000 \\ 11\ 000 \\ 400 \\ 90 \\ 11 \\ \hline 91\ 501 \end{array}$$

estimate: $64\ 000 + 27\ 000$

$$\begin{array}{r} 64\ 000 \\ + 27\ 000 \\ \hline 80\ 000 \\ 11\ 000 \\ \hline 91\ 000 \end{array}$$

b) $45\ 890 - 15\ 675 =$

15 675 $\xrightarrow{+30\ 000}$ 45 675 $\xrightarrow{+200}$ 45 875 $\xrightarrow{+10}$ 45 885 $\xrightarrow{+5}$ 45 890

$30\ 000 + 200 + 10 + 5 = 30\ 215$

estimate: $46\ 000 - 16\ 000 = 30\ 000$

Part C

8. a) Arrange the digits 3, 8, 9, 1, 5, 2 to make a 6-digit number.

Use each digit only once.

What is the greatest number you can make? The least number?

Greatest	-	985 321
<hr/>		
least		123 589

- b) Estimate the sum and difference of the numbers you made.

1 000 000	+	100 000	=	1 100 000
<hr/>				
1 000 000	-	100 000	=	900 000

9. Concert tickets were sold for the Fall Festival.

On the first day 25 725 concert tickets were sold.

On the second day 29 528 concert tickets were sold.

a) On which day were more concert tickets sold? second day

How many more? $29\ 528 - 25\ 725$

$$\begin{array}{ccccccc} & +3000 & & +300 & & +500 & & +3 \\ 25\ 725 & \xrightarrow{\quad} & 28\ 725 & \xrightarrow{\quad} & 29\ 025 & \xrightarrow{\quad} & 29\ 525 & \xrightarrow{\quad} & 29\ 528 \\ & 3000 & +300 & +500 & +3 & = & 3803 & & 3803 \text{ more tickets} \\ & & & & & & & & \text{were sold.} \end{array}$$

Estimate to check that your answers are reasonable.

$$\underline{30\ 000 - 26\ 000 = 4000}$$

b) How many tickets were sold on both days in total?

$$\begin{array}{r} 29\ 528 \\ + 25\ 725 \\ \hline 40\ 000 \\ 14\ 000 \\ 1\ 200 \\ \quad 40 \\ \quad \quad 3 \\ \hline 55\ 253 \end{array}$$

55 253 tickets were sold.

Estimate to check that your answers are reasonable.

$$\underline{30\ 000 + 26\ 000 = 56\ 000}$$

c) How many more tickets do they need to sell on the third day

to reach the target sales of 60 000 tickets? $60\ 000 - 55\ 253$

$$\begin{array}{ccccccc} & +4000 & & +700 & & +40 & & +7 \\ 55\ 253 & \xrightarrow{\quad} & 59\ 253 & \xrightarrow{\quad} & 59\ 953 & \xrightarrow{\quad} & 59\ 993 & \xrightarrow{\quad} & 60\ 000 \\ & 4000 & +700 & +40 & +7 & = & 4747 & & 4747 \text{ more tickets} \\ & & & & & & & & \text{needed.} \end{array}$$

Estimate to check that your answers are reasonable.

$$\underline{60\ 000 - 55\ 000 = 5000}$$